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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/851,767	05/09/2001	Ying Ee Yip	STL9663	3825
75	590 05/07/2003			
Kirk A. Cesari Seagate Technology LLC SHK2LG			EXAMINER	
			HOLDER, REGINA NEAL	
1280 Disc Drive Shakopee, MN 55379-1863			ART UNIT	PAPER NUMBER
			2651	3
		DATE MAILED: 05/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.

6) Other:

Notice of Informal Patent Application (PTO-152)

Application/Control Number: 09/851,767

Art Unit: 2651

DETAILED ACTION

Claim Objections

1. Claim 8 is objected to because of the following informalities: In claim 8, the phrase "reference line" lacks antecedent basis. The examiner thinks claim 8 should depend from claim 7 instead of claim 1. This would correct the lack of antecedent basis problem. Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimote et al (5,212,677) in view of Sliger (5,745,313).

Regarding claim 1, Shimote et al teaches a disc drive comprising at least one disc having a plurality of sectors, a method of storing information on defective sectors comprising steps of defining a cluster comprising at least one defective sector, defining parameters describing the shape and size of the cluster (type, position and dimensions), storing the parameters. See col. 3 line 63 – col. 4 line 29. Shimote et al does not teach the sectors being categorized into zones, sorting defective sectors by zone, and selecting a reference sector from the cluster.

Sliger teaches selecting a single entry in the BPB which to store information about each cluster. This is functionally equivalent to selecting a reference sector, it a single location/reference which to store parameters about the entire cluster. See col. 5 lines 13-51.

Although the reference does not teach zone recording, zone recording is well known in the disk drive and official notice is taken thereof. It would have been obvious to apply these steps to each zone because each zone has different characteristics.

Application/Control Number: 09/851,767

Art Unit: 2651

It would have been obvious to one ordinary skill in the art at the same time the invention was made to modify the teachings of Shimote et al to include the teachings of Sliger, motivation being to describe the physical and logical geometry of the disk as set forth in col. 5 lines 12-13 of Sliger.

Regarding claim 2, Sliger teaches non-defective sectors include the cluster. See col. 5 lines 48-51.

Regarding claims 3 and 4, the reference sector is analogous to the BPB entry for each cluster. Hence, any single sector within the cluster could correspond to the reference sector. Whether to use the first or last sector is a routine engineering decision based on speed and efficiency.

Regarding claims 5 and 6, Sliger teaches storing the number of sectors per cluster and sectors per track. See col. 5 lines 13-17. These parameters define the scratch parameter and span parameters.

It would have been obvious to one ordinary skill in the art at the same time the invention was made to modify the teachings of Shimote et al to include the teachings of Sliger, motivation being to describe the physical and logical geometry of the disk as set forth in col. 5 lines 12-13 of Sliger.

Allowable Subject Matter

3. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Ápplication/Control Number: 09/851,767

Art Unit: 2651

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina N. Holder whose telephone number is (703) 308-4078. The examiner can normally be reached on 6:30 a.m. - 5:00 p.m. Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (703) 308-4825. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Regina N. Holder
Primary Examiner
Art Unit 2651

rnh May 2

May 2, 2003